

# HALLIBURTON

# Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 344659	Ship To #: 2837390	Quote #:	Sales Order #: 7973098
Customer: CHESAPEAKE OPERATING INC EBUSINESS		Customer Rep:	
Well Name: State	Well #: 8-60 16-1H	API/UWI #:	
Field: WILD CAT	City (SAP): NEW RAYMER	County/Parish: Weld	State: Colorado
Contractor: DHS		Rig/Platform Name/Num: DHS 19	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FLING, MATTHEW		Srvc Supervisor: HEAD, DONALD	MBU ID Emp #: 157684

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HEAD, DONALD Faron		157684						

### Equipment

HES Unit #	Distance-1 way						

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

TOTAL Total is the sum of each column separately

### Job

### Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type	Job depth MD	1000. ft	Job Depth TVD	1000. ft	Job Started		
Water Depth	Perforation Depth (MD)	From	To	Job Completed	Departed Loc		

### Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Open Hole				12.25					1010.		
Surface Casing	Unknown		9.625	8.835	40.		J-55		1000.		

### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

### Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

### Fluid Data

Stage/Plug #: 1
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Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer			bbl	8.33	.0	.0	5.0	
2	11.5# Lead Cement	SWIFTCEM (TM) SYSTEM (452990)		sacks	11.5	2.95	17.89	5.0	17.89
	17.888 Gal	FRESH WATER							
3	15.8# Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)		sacks	15.8	1.16	4.98	3.0	4.98
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	1 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	4.983 Gal	FRESH WATER							
4	Water Displacement			bbl	8.33	.0	.0	5.0	
<b>Calculated Values</b>		<b>Pressures</b>			<b>Volumes</b>				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
<b>Rates</b>									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left in Pipe	Amount	42 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					